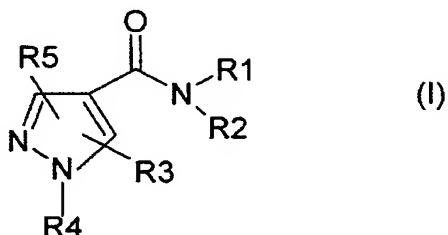


## CLAIMS

1. Use of an effective amount of at least one pyrazolecarboxamide compound of formula (I), or a salt thereof:

5



in which:

- R<sub>1</sub> and R<sub>2</sub> are chosen independently from:
  - 10 - hydrogen,
  - saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radicals optionally substituted with at least one substituent T<sub>1</sub>,
  - saturated or unsaturated rings containing at
    - 15 least one hetero atom chosen from O, N and S and saturated hydrocarbon-based rings, these rings containing from 4 to 7 atoms and possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with
      - 20 at least one substituent T<sub>2</sub> chosen from A and R,
  - R<sub>1</sub> and R<sub>2</sub> also possibly forming a heterocycle of 4 to 7 atoms with the nitrogen to which they are attached;
- R<sub>3</sub> and R<sub>5</sub> are chosen independently from:

- hydrogen,
- A,
- halogens,
- the groups  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  
5  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  
 $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  
 $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ ,
- saturated or unsaturated rings of 4 to 7 atoms,  
optionally containing at least one hetero atom  
10 chosen from O, N and S, these rings possibly  
being fused, comprising a carbonyl or  
thiocarbonyl function, and/or possibly being  
substituted with at least one substituent  $T_3$   
chosen from A and R;
- 15 •  $R_4$  is chosen from:
  - hydrogen,
  - A,
  - the groups  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $CONR_6R'_6$ ,  $CSNR_6R'_6$ ,  
 $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,
  - 20 - saturated or unsaturated hydrocarbon-based rings,  
of 4 to 7 atoms, 5-atom heterocycles containing  
from one to four hetero atoms, 6-atom  
heterocycles containing from one to three non-  
adjacent hetero atoms, 4- or 7-atom heterocycles  
25 containing from one to three hetero atoms, the  
hetero atoms being chosen from O, N and S, these  
heterocycles being saturated or unsaturated, the

- said rings and the said heterocycles possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent  $T_4$
- 5 chosen from A and R;
- $R_6$ ,  $R'_6$ ,  $R''_6$  and  $R'''_6$  are chosen from:
    - hydrogen,
    - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at
    - 10 least one substituent  $R'$ ,
    - saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thio-
    - 15 carbonyl function, and/or possibly being substituted with at least one substituent R;
  - R is chosen from:
    - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,
    - 20 - halogens,
    - the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$ ,  $COR_7$ ,  $CSR_7$ ,  $COOR_7$ ,  $COSR_7$ ,  $CSOR_7$ ,  $CSSR_7$ ,  $NR_7COR'_7$ ,  $NR_7CSR'_7$ ,  $OCOR_7$ ,  $SCOR_7$ ,  $CSNR_7R'_7$ ,  $SO_2R_7$ ,  $SO_2NR_7R'_7$ ,  $NR_7SO_2R'_7$ ,  $NR_7C(=NR'_7)NR''_7R'''_7$  and  $SiR_7R'_7R''_7$ ;
  - 25 •  $R'$  is chosen from:
    - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,

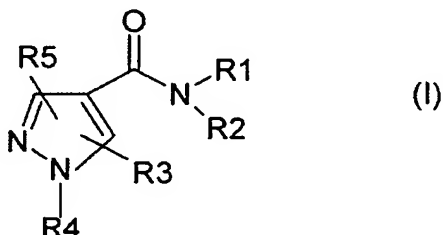
- halogens,
- the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$ ,  $COR_7$ ,  $CSR_7$ ,  
 $COOR_7$ ,  $COSR_7$ ,  $CSOR_7$ ,  $CSSR_7$ ,  $NR_7COR'_7$ ,  $NR_7CSR_7$ ,  
 $OCOR_7$ ,  $SCOR_7$ ,  $CSNR_7R'_7$ ,  $SO_2R_7$ ,  $SO_2NR_7R'_7$ ,  $NR_7SO_2R'_7$ ,  
5  $NR_7C(=NR'_7)NR''_7R'''_7$  and  $SiR_7R'_7R''_7$ ,
- saturated or unsaturated rings, of 4 to 7 atoms,  
optionally containing at least one hetero atom  
chosen from O, N and S, these rings possibly  
being fused and/or comprising a carbonyl or  
10 thiocarbonyl function;
- $R_7$ ,  $R'_7$ ,  $R''_7$  and  $R'''_7$  independently represent  
hydrogen or a saturated or unsaturated, linear or  
branched  $C_1$ - $C_{20}$  alkyl;
- A represents a saturated or unsaturated, linear or  
15 branched  $C_1$ - $C_{20}$  alkyl radical, optionally  
substituted with at least one substituent  $T_5$  chosen  
from:  $R'$  and the saturated or unsaturated rings of  
4 to 7 atoms optionally containing at least one  
hetero atom chosen from O, N and S, these rings  
20 possibly being fused, comprising a carbonyl or  
thiocarbonyl function, and/or possibly being  
substituted with at least one substituent R;
- $T_1$  is chosen from  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  
 $CSR_6$ ,  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  
25  $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  
 $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ , halogens, saturated  
or unsaturated rings of 4 to 7 atoms optionally

containing at least one hetero atom chosen from O,  
N and S, these rings possibly being fused,  
comprising a carbonyl or thiocarbonyl function, and  
possibly being substituted with at least one

5       substituent R,

as an agent for inducing and/or stimulating the growth  
of keratin fibres, especially human keratin fibres,  
and/or for reducing their loss and/or increasing their  
density.

10       2. Cosmetic use of at least one pyrazole-  
carboxamide compound of formula (I), or a salt thereof:



15   in which:

- $R_1$  and  $R_2$  are chosen independently from:
  - hydrogen,
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at
  - 20   least one substituent  $T_1$ ,
  - saturated or unsaturated rings containing at
  - least one hetero atom chosen from O, N and S and
  - saturated hydrocarbon-based rings, these rings
  - containing from 4 to 7 atoms and possibly being

fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent  $T_2$  chosen from A and R,  $R_1$  and  $R_2$  also possibly forming a heterocycle of 4 to 7 atoms with the nitrogen to which they are attached;

- $R_3$  and  $R_5$  are chosen independently from:

- hydrogen,
- A,
- 10 - halogens,
- the groups  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ ,
- 15 - saturated or unsaturated rings of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being
- 20 substituted with at least one substituent  $T_3$  chosen from A and R;
- $R_4$  is chosen from:
  - hydrogen,
  - A,
  - 25 - the groups  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $CONR_6R'_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,
  - saturated or unsaturated hydrocarbon-based rings,

of 4 to 7 atoms, 5-atom heterocycles containing  
 from one to four hetero atoms, 6-atom  
 heterocycles containing from one to three non-  
 adjacent hetero atoms, 4- or 7-atom heterocycles  
 5 containing from one to three hetero atoms, the  
 hetero atoms being chosen from O, N and S, these  
 heterocycles being saturated or unsaturated, the  
 said rings and the said heterocycles possibly  
 being fused, comprising a carbonyl or  
 10 thiocarbonyl function, and/or possibly being  
 substituted with at least one substituent  $T_4$   
 chosen from A and R;

- $R_6$ ,  $R'_6$ ,  $R''_6$  and  $R'''_6$  are chosen from:
  - hydrogen,
  - 15 - saturated or unsaturated, linear or branched  $C_1$ -  
 $C_{20}$  alkyl radicals optionally substituted with at  
 least one substituent  $R'$ ,
  - saturated or unsaturated rings, of 4 to 7 atoms,  
 optionally containing at least one hetero atom  
 20 chosen from O, N and S, these rings possibly  
 being fused, comprising a carbonyl or thio-  
 carbonyl function, and/or possibly being  
 substituted with at least one substituent R;
- R is chosen from:
  - 25 - saturated or unsaturated, linear or branched  $C_1$ -  
 $C_{20}$  alkyl radicals,
  - halogens,

- the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$ ,  $COR_7$ ,  $CSR_7$ ,  $COOR_7$ ,  $COSR_7$ ,  $CSOR_7$ ,  $CSSR_7$ ,  $NR_7COR'_7$ ,  $NR_7CSR'_7$ ,  $OCOR_7$ ,  $SCOR_7$ ,  $CSNR_7R'_7$ ,  $SO_2R_7$ ,  $SO_2NR_7R'_7$ ,  $NR_7SO_2R'_7$ ,  $NR_7C(=NR'_7)NR''_7R'''_7$  and  $SiR_7R'_7R''_7$ ;

- 5    •     $R'$  is chosen from:
- saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,
  - halogens,
  - the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$ ,  $COR_7$ ,  $CSR_7$ ,  
10     $COOR_7$ ,  $COSR_7$ ,  $CSOR_7$ ,  $CSSR_7$ ,  $NR_7COR'_7$ ,  $NR_7CSR'_7$ ,  
       $OCOR_7$ ,  $SCOR_7$ ,  $CSNR_7R'_7$ ,  $SO_2R_7$ ,  $SO_2NR_7R'_7$ ,  $NR_7SO_2R'_7$ ,  
       $NR_7C(=NR'_7)NR''_7R'''_7$  and  $SiR_7R'_7R''_7$ ,
  - saturated or unsaturated rings, of 4 to 7 atoms,  
      optionally containing at least one hetero atom  
15    chosen from O, N and S, these rings possibly  
      being fused and/or comprising a carbonyl or  
      thiocarbonyl function;
  - $R_7$ ,  $R'_7$ ,  $R''_7$  and  $R'''_7$  independently represent  
      hydrogen or a saturated or unsaturated, linear or  
20    branched  $C_1$ - $C_{20}$  alkyl;
  - A represents a saturated or unsaturated, linear or  
      branched  $C_1$ - $C_{20}$  alkyl radical, optionally  
      substituted with at least one substituent  $T_5$  chosen  
      from:  $R'$  and the saturated or unsaturated rings of  
25    4 to 7 atoms optionally containing at least one  
      hetero atom chosen from O, N and S, these rings  
      possibly being fused, comprising a carbonyl or

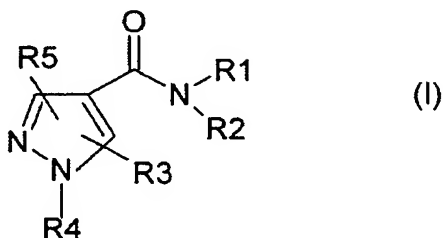


thiocarbonyl function, and/or possibly being substituted with at least one substituent R;

- $T_1$  is chosen from  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ , halogens, saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and possibly being substituted with at least one substituent R,

in a cosmetic composition for caring for and/or making up human keratin fibres, to induce and/or stimulate their growth, to reduce their loss and/or to increase their density.

3. Use of at least one pyrazolecarboxamide compound of formula (I), or a salt thereof:



20

in which:

- $R_1$  and  $R_2$  are chosen independently from:  
- hydrogen,

- saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at least one substituent  $T_1$ ,
- saturated or unsaturated rings containing at least one hetero atom chosen from O, N and S and saturated hydrocarbon-based rings, these rings containing from 4 to 7 atoms and possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent  $T_2$  chosen from A and R,  $R_1$  and  $R_2$  also possibly forming a heterocycle of 4 to 7 atoms with the nitrogen to which they are attached;
- $R_3$  and  $R_5$  are chosen independently from:
  - hydrogen,
  - A,
  - halogens,
  - the groups  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ ,
  - saturated or unsaturated rings of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thio-carbonyl function, and/or possibly being substituted with at least one substituent  $T_3$

chosen from A and R;

- $R_4$  is chosen from:

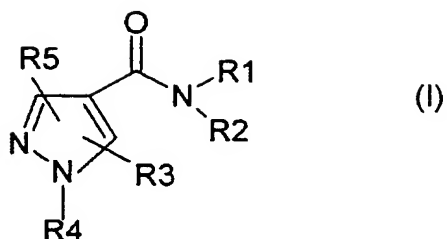
  - hydrogen,
  - A,
  - 5 - the groups  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $CONR_6R'_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,
  - saturated or unsaturated hydrocarbon-based rings, of 4 to 7 atoms, 5-atom heterocycles containing from one to four hetero atoms, 6-atom
  - 10 heterocycles containing from one to three non-adjacent hetero atoms, 4- or 7-atom heterocycles containing from one to three hetero atoms, the hetero atoms being chosen from O, N and S, these heterocycles being saturated or unsaturated, the
  - 15 said rings and the said heterocycles possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent  $T_4$  chosen from A and R;
- 20 •  $R_6$ ,  $R'_6$ ,  $R''_6$  and  $R'''_6$  are chosen from:

  - hydrogen,
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at least one substituent  $R'$ ,
  - 25 - saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly

being fused, comprising a carbonyl or thio-carbonyl function, and/or possibly being substituted with at least one substituent R;

- R is chosen from:
  - 5 - saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radicals,
  - halogens,
  - the groups OR<sub>7</sub>, SR<sub>7</sub>, NR<sub>7</sub>R'<sub>7</sub>, CN, CF<sub>3</sub>, COR<sub>7</sub>, CSR<sub>7</sub>, COOR<sub>7</sub>, COSR<sub>7</sub>, CSOR<sub>7</sub>, CSSR<sub>7</sub>, NR<sub>7</sub>COR'<sub>7</sub>, NR<sub>7</sub>CSR'<sub>7</sub>,
    - 10 OCOR<sub>7</sub>, SCOR<sub>7</sub>, CSNR<sub>7</sub>R'<sub>7</sub>, SO<sub>2</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>7</sub>R'<sub>7</sub>, NR<sub>7</sub>SO<sub>2</sub>R'<sub>7</sub>, NR<sub>7</sub>C(=NR'<sub>7</sub>)NR''<sub>7</sub>R'''<sub>7</sub> and SiR<sub>7</sub>R'<sub>7</sub>R''<sub>7</sub>;
- R' is chosen from:
  - saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radicals,
  - 15 - halogens,
  - the groups OR<sub>7</sub>, SR<sub>7</sub>, NR<sub>7</sub>R'<sub>7</sub>, CN, CF<sub>3</sub>, COR<sub>7</sub>, CSR<sub>7</sub>, COOR<sub>7</sub>, COSR<sub>7</sub>, CSOR<sub>7</sub>, CSSR<sub>7</sub>, NR<sub>7</sub>COR'<sub>7</sub>, NR<sub>7</sub>CSR<sub>8</sub>, OCOR<sub>7</sub>, SCOR<sub>7</sub>, CSNR<sub>7</sub>R'<sub>7</sub>, SO<sub>2</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>7</sub>R'<sub>7</sub>, NR<sub>7</sub>SO<sub>2</sub>R'<sub>7</sub>, NR<sub>7</sub>C(=NR'<sub>7</sub>)NR''<sub>7</sub>R'''<sub>7</sub> and SiR<sub>7</sub>R'<sub>7</sub>R''<sub>7</sub>,
  - 20 - saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused and/or comprising a carbonyl or thiocarbonyl function;
  - 25 • R<sub>7</sub>, R'<sub>7</sub>, R''<sub>7</sub> and R'''<sub>7</sub> independently represent hydrogen or a saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl;

- A represents a saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radical, optionally substituted with at least one substituent T<sub>5</sub> chosen from: R' and the saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent R;
  - T<sub>1</sub> is chosen from OR<sub>6</sub>, SR<sub>6</sub>, NR<sub>6</sub>R'<sub>6</sub>, CN, CF<sub>3</sub>, COR<sub>6</sub>, CSR<sub>6</sub>, COOR<sub>6</sub>, COSR<sub>6</sub>, CSOR<sub>6</sub>, CSSR<sub>6</sub>, NR<sub>6</sub>COR'<sub>6</sub>, NR<sub>6</sub>CSR'<sub>6</sub>, OCOR<sub>6</sub>, SCOR<sub>6</sub>, CSNR<sub>6</sub>R'<sub>6</sub>, SO<sub>2</sub>R<sub>6</sub>, SO<sub>2</sub>NR<sub>6</sub>R'<sub>6</sub>, NR<sub>6</sub>SO<sub>2</sub>R'<sub>6</sub>, NR<sub>6</sub>C(=NR'<sub>6</sub>)NR''<sub>6</sub>R'''<sub>6</sub>, SiR<sub>6</sub>R'<sub>6</sub>R''<sub>6</sub>, halogens, saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and possibly being substituted with at least one substituent R,
- for the preparation of a composition for caring for or treating human keratin fibres, which is intended to induce and/or stimulate the growth of the said fibres and/or to reduce their loss and/or to increase their density.
4. Use of at least one pyrazolecarboxamide compound of formula (I), or a salt thereof:



in which:

- $R_1$  and  $R_2$  are chosen independently from:
  - 5       - hydrogen,
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at least one substituent  $T_1$ ,
  - saturated or unsaturated rings containing at
  - 10       least one hetero atom chosen from O, N and S and saturated hydrocarbon-based rings, these rings containing from 4 to 7 atoms and possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with
  - 15       at least one substituent  $T_2$  chosen from A and R,  $R_1$  and  $R_2$  also possibly forming a heterocycle of 4 to 7 atoms with the nitrogen to which they are attached;
- $R_3$  and  $R_5$  are chosen independently from:
  - 20       - hydrogen,
  - A,
  - halogens,
  - the groups  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,

$\text{OCOR}_6$ ,  $\text{SCOR}_6$ ,  $\text{CSNR}_6\text{R}'_6$ ,  $\text{SO}_2\text{R}_6$ ,  $\text{SO}_2\text{NR}_6\text{R}'_6$ ,  $\text{NR}_6\text{SO}_2\text{R}'_6$ ,  
 $\text{NR}_6\text{C}(=\text{NR}'_6)\text{NR}''_6\text{R}'''_6$ ,  $\text{SiR}_6\text{R}'_6\text{R}''_6$ ,

- saturated or unsaturated rings of 4 to 7 atoms,  
 optionally containing at least one hetero atom  
 5 chosen from O, N and S, these rings possibly  
 being fused, comprising a carbonyl or  
 thiocarbonyl function, and/or possibly being  
 substituted with at least one substituent  $\text{T}_3$   
 chosen from A and R;
- 10 •  $\text{R}_4$  is chosen from:
  - hydrogen,
  - A,
  - the groups  $\text{COR}_6$ ,  $\text{CSR}_6$ ,  $\text{COOR}_6$ ,  $\text{CONR}_6\text{R}'_6$ ,  $\text{CSNR}_6\text{R}'_6$ ,  
 $\text{SO}_2\text{R}_6$ ,  $\text{SO}_2\text{NR}_6\text{R}'_6$ ,
- 15 - saturated or unsaturated hydrocarbon-based rings,  
 of 4 to 7 atoms, 5-atom heterocycles containing  
 from one to four hetero atoms, 6-atom  
 heterocycles containing from one to three non-  
 adjacent hetero atoms, 4- or 7-atom heterocycles  
 20 containing from one to three hetero atoms, the  
 hetero atoms being chosen from O, N and S, these  
 heterocycles being saturated or unsaturated, the  
 said rings and the said heterocycles possibly  
 being fused, comprising a carbonyl or  
 25 thiocarbonyl function, and/or possibly being  
 substituted with at least one substituent  $\text{T}_4$   
 chosen from A and R;

- $R_6$ ,  $R'_6$ ,  $R''_6$  and  $R'''_6$  are chosen from:
  - hydrogen,
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at least one substituent  $R'$ ,
  - saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thio-carbonyl function, and/or possibly being substituted with at least one substituent R;
- R is chosen from:
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,
  - halogens,
  - the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$ ,  $COR_7$ ,  $CSR_7$ ,  $COOR_7$ ,  $COSR_7$ ,  $CSOR_7$ ,  $CSSR_7$ ,  $NR_7COR'_7$ ,  $NR_7CSR'_7$ ,  $OCOR_7$ ,  $SCOR_7$ ,  $CSNR_7R'_7$ ,  $SO_2R_7$ ,  $SO_2NR_7R'_7$ ,  $NR_7SO_2R'_7$ ,  $NR_7C(=NR'_7)NR''_7R'''_7$  and  $SiR_7R'_7R''_7$ ;
- $R'$  is chosen from:
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,
  - halogens,
  - the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$ ,  $COR_7$ ,  $CSR_7$ ,  $COOR_7$ ,  $COSR_7$ ,  $CSOR_7$ ,  $CSSR_7$ ,  $NR_7COR'_7$ ,  $NR_7CSR'_7$ ,  $OCOR_7$ ,  $SCOR_7$ ,  $CSNR_7R'_7$ ,  $SO_2R_7$ ,  $SO_2NR_7R'_7$ ,  $NR_7SO_2R'_7$ ,  $NR_7C(=NR'_7)NR''_7R'''_7$  and  $SiR_7R'_7R''_7$ ,

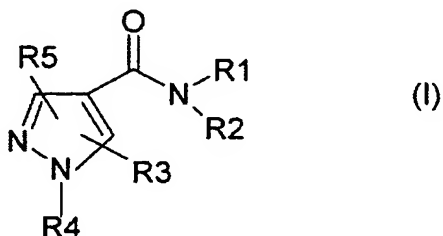


- saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused and/or comprising a carbonyl or thiocarbonyl function;
- 5       thiocarbonyl function;
- $R_7$ ,  $R'_7$ ,  $R''_7$  and  $R'''_7$  independently represent hydrogen or a saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl;
- A represents a saturated or unsaturated, linear or  
10       branched  $C_1$ - $C_{20}$  alkyl radical, optionally substituted with at least one substituent  $T_5$  chosen from:  $R'$  and the saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings  
15       possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent R;
- $T_1$  is chosen from  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  
20        $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ , halogens, saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused,  
25       comprising a carbonyl or thiocarbonyl function, and possibly being substituted with at least one substituent R,

as an inhibitor of 15-hydroxyprostaglandin dehydrogenase, especially of human origin.

5. Use of at least one pyrazolecarboxamide compound of formula (I), or a salt thereof:

5



in which:

- $R_1$  and  $R_2$  are chosen independently from:
  - 10 - hydrogen,
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at least one substituent  $T_1$ ,
  - saturated or unsaturated rings containing at
  - 15 least one hetero atom chosen from O, N and S and saturated hydrocarbon-based rings, these rings containing from 4 to 7 atoms and possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with
  - 20 at least one substituent  $T_2$  chosen from A and R,
  - $R_1$  and  $R_2$  also possibly forming a heterocycle of 4 to 7 atoms with the nitrogen to which they are attached;
- $R_3$  and  $R_5$  are chosen independently from:

- hydrogen,
- A,
- halogens,
- the groups  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  
5  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  
 $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  
 $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ ,
- saturated or unsaturated rings of 4 to 7 atoms,  
optionally containing at least one hetero atom  
10 chosen from O, N and S, these rings possibly  
being fused, comprising a carbonyl or thio-  
carbonyl function, and/or possibly being  
substituted with at least one substituent  $T_3$   
chosen from A and R;
- 15 •  $R_4$  is chosen from:
  - hydrogen,
  - A,
  - the groups  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $CONR_6R'_6$ ,  $CSNR_6R'_6$ ,  
 $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,
  - 20 - saturated or unsaturated hydrocarbon-based rings,  
of 4 to 7 atoms, 5-atom heterocycles containing  
from one to four hetero atoms, 6-atom  
heterocycles containing from one to three non-  
adjacent hetero atoms, 4- or 7-atom heterocycles  
25 containing from one to three hetero atoms, the  
hetero atoms being chosen from O, N and S, these  
heterocycles being saturated or unsaturated, the

said rings and the said heterocycles possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent  $T_4$  chosen from A and R;

- $R_6$ ,  $R'_6$ ,  $R''_6$  and  $R'''_6$  are chosen from:

- hydrogen,
- saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at least one substituent  $R'$ ,
- saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thio-carbonyl function, and/or possibly being substituted with at least one substituent R;

- R is chosen from:

- saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,
- halogens,
- the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$ ,  $COR_7$ ,  $CSR_7$ ,  $COOR_7$ ,  $COSR_7$ ,  $CSOR_7$ ,  $CSSR_7$ ,  $NR_7COR'_7$ ,  $NR_7CSR'_7$ ,  $OCOR_7$ ,  $SCOR_7$ ,  $CSNR_7R'_7$ ,  $SO_2R_7$ ,  $SO_2NR_7R'_7$ ,  $NR_7SO_2R'_7$ ,  $NR_7C(=NR'_7)NR''_7R'''_7$  and  $SiR_7R'_7R''_7$ ,

- $R'$  is chosen from:

- saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,

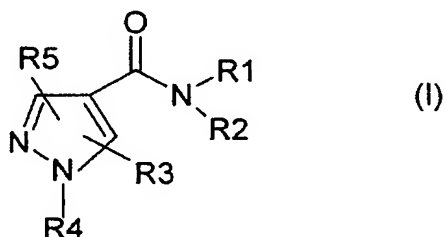
- halogens,
- the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$ ,  $COR_7$ ,  $CSR_7$ ,  
 $COOR_7$ ,  $COSR_7$ ,  $CSOR_7$ ,  $CSSR_7$ ,  $NR_7COR'_7$ ,  $NR_7CSR_7$ ,  
 $OCOR_7$ ,  $SCOR_7$ ,  $CSNR_7R'_7$ ,  $SO_2R_7$ ,  $SO_2NR_7R'_7$ ,  $NR_7SO_2R'_7$ ,  
5  $NR_7C(=NR'_7)NR''_7R'''_7$  and  $SiR_7R'_7R''_7$ ,
- saturated or unsaturated rings, of 4 to 7 atoms,  
optionally containing at least one hetero atom  
chosen from O, N and S, these rings possibly  
being fused and/or comprising a carbonyl or  
10 thiocarbonyl function;
- $R_7$ ,  $R'_7$ ,  $R''_7$  and  $R'''_7$  independently represent  
hydrogen or a saturated or unsaturated, linear or  
branched  $C_1$ - $C_{20}$  alkyl;
- A represents a saturated or unsaturated, linear or  
15 branched  $C_1$ - $C_{20}$  alkyl radical, optionally  
substituted with at least one substituent  $T_5$  chosen  
from:  $R'$  and the saturated or unsaturated rings of  
4 to 7 atoms optionally containing at least one  
hetero atom chosen from O, N and S, these rings  
20 possibly being fused, comprising a carbonyl or  
thiocarbonyl function, and/or possibly being  
substituted with at least one substituent R;
- $T_1$  is chosen from  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  
 $CSR_6$ ,  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  
25  $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  
 $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ , halogens, saturated  
or unsaturated rings of 4 to 7 atoms optionally

containing at least one hetero atom chosen from O,  
 N and S, these rings possibly being fused,  
 comprising a carbonyl or thiocarbonyl function, and  
 possibly being substituted with at least one  
 5 substituent R,

for the manufacture of a composition for caring for or  
 treating human keratin fibres, which is intended to  
 treat disorders associated with 15-hydroxyprostaglandin  
 dehydrogenase in man.

10 6. Use according to one of the preceding claims,  
 characterized in that the keratin fibres are head hair,  
 the eyebrows, the eyelashes, beard hair, moustache hair  
 and pubic hair.

7. Use of an effective amount of at least one  
 15 pyrazolecarboxamide compound of formula (I), or a salt  
 thereof:



20 in which:

- $R_1$  and  $R_2$  are chosen independently from:
  - hydrogen,
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at

- least one substituent  $T_1$ ,
- saturated or unsaturated rings containing at least one hetero atom chosen from O, N and S and saturated hydrocarbon-based rings, these rings
 

5 containing from 4 to 7 atoms and possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent  $T_2$  chosen from A and R,  $R_1$  and  $R_2$  also possibly forming a heterocycle of 4
 

10 to 7 atoms with the nitrogen to which they are attached;
  - $R_3$  and  $R_5$  are chosen independently from:
    - hydrogen,
    - A,
    - 15 - halogens,
    - the groups  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ ,
  - 20 - saturated or unsaturated rings of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being
 

25 substituted with at least one substituent  $T_3$  chosen from A and R;
  - $R_4$  is chosen from:

- hydrogen,
- A,
- the groups  $\text{COR}_6$ ,  $\text{CSR}_6$ ,  $\text{COOR}_6$ ,  $\text{CONR}_6\text{R}'_6$ ,  $\text{CSNR}_6\text{R}'_6$ ,  $\text{SO}_2\text{R}_6$ ,  $\text{SO}_2\text{NR}_6\text{R}'_6$ ,
- 5 - saturated or unsaturated hydrocarbon-based rings, of 4 to 7 atoms, 5-atom heterocycles containing from one to four hetero atoms, 6-atom heterocycles containing from one to three non-adjacent hetero atoms, 4- or 7-atom heterocycles containing from one to three hetero atoms, the
- 10 hetero atoms being chosen from O, N and S, these heterocycles being saturated or unsaturated, the said rings and the said heterocycles possibly being fused, comprising a carbonyl or
- 15 thiocarbonyl function, and/or possibly being substituted with at least one substituent  $\text{T}_4$  chosen from A and R;
- $\text{R}_6$ ,  $\text{R}'_6$ ,  $\text{R}''_6$  and  $\text{R}'''_6$  are chosen from:
  - hydrogen,
  - 20 - saturated or unsaturated, linear or branched  $\text{C}_1$ - $\text{C}_{20}$  alkyl radicals optionally substituted with at least one substituent  $\text{R}'$ ,
  - saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom
  - 25 chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thio-carbonyl function, and/or possibly being



substituted with at least one substituent R;

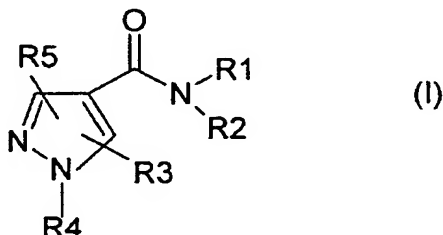
- R is chosen from:
  - saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radicals,
  - 5 - halogens,
  - the groups OR<sub>7</sub>, SR<sub>7</sub>, NR<sub>7</sub>R'<sub>7</sub>, CN, CF<sub>3</sub>, COR<sub>7</sub>, CSR<sub>7</sub>, COOR<sub>7</sub>, COSR<sub>7</sub>, CSOR<sub>7</sub>, CSSR<sub>7</sub>, NR<sub>7</sub>COR'<sub>7</sub>, NR<sub>7</sub>CSR'<sub>7</sub>, OCOR<sub>7</sub>, SCOR<sub>7</sub>, CSNR<sub>7</sub>R'<sub>7</sub>, SO<sub>2</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>7</sub>R'<sub>7</sub>, NR<sub>7</sub>SO<sub>2</sub>R'<sub>7</sub>, NR<sub>7</sub>C(=NR'<sub>7</sub>)NR''<sub>7</sub>R'''<sub>7</sub> and SiR<sub>7</sub>R'<sub>7</sub>R''<sub>7</sub>;
- 10 • R' is chosen from:
  - saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radicals,
  - halogens,
  - the groups OR<sub>7</sub>, SR<sub>7</sub>, NR<sub>7</sub>R'<sub>7</sub>, CN, CF<sub>3</sub>, COR<sub>7</sub>, CSR<sub>7</sub>, COOR<sub>7</sub>, COSR<sub>7</sub>, CSOR<sub>7</sub>, CSSR<sub>7</sub>, NR<sub>7</sub>COR'<sub>7</sub>, NR<sub>7</sub>CSR'<sub>7</sub>, OCOR<sub>7</sub>, SCOR<sub>7</sub>, CSNR<sub>7</sub>R'<sub>7</sub>, SO<sub>2</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>7</sub>R'<sub>7</sub>, NR<sub>7</sub>SO<sub>2</sub>R'<sub>7</sub>, NR<sub>7</sub>C(=NR'<sub>7</sub>)NR''<sub>7</sub>R'''<sub>7</sub> and SiR<sub>7</sub>R'<sub>7</sub>R''<sub>7</sub>,
  - 15 - saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused and/or comprising a carbonyl or thiocarbonyl function;
  - 20
- R<sub>7</sub>, R'<sub>7</sub>, R''<sub>7</sub> and R'''<sub>7</sub> independently represent hydrogen or a saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl;
- 25 • A represents a saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radical, optionally

substituted with at least one substituent  $T_5$  chosen from:  $R'$  and the saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent  $R$ ;

- $T_1$  is chosen from  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$  halogens, saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and possibly being substituted with at least one substituent  $R$ ,

in a cosmetic composition for caring for human hair, to reduce hair loss and/or to increase hair density and/or to treat alopecia of natural origin.

8. Use of at least one pyrazolecarboxamide compound of formula (I), or a salt thereof:



in which:

- $R_1$  and  $R_2$  are chosen independently from:
  - hydrogen,
  - saturated or unsaturated, linear or branched  $C_1$ -  
 5  $C_{20}$  alkyl radicals optionally substituted with at  
 least one substituent  $T_1$ ,
  - saturated or unsaturated rings containing at  
 least one hetero atom chosen from O, N and S and  
 saturated hydrocarbon-based rings, these rings  
 10 containing from 4 to 7 atoms and possibly being  
 fused, comprising a carbonyl or thiocarbonyl  
 function, and/or possibly being substituted with  
 at least one substituent  $T_2$  chosen from A and R,  
 $R_1$  and  $R_2$  also possibly forming a heterocycle of 4  
 15 to 7 atoms with the nitrogen to which they are  
 attached;
- $R_3$  and  $R_5$  are chosen independently from:
  - hydrogen,
  - A,
  - 20 - halogens,
  - the groups  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ , CN,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  
 $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  
 $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  
 $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$
  - 25 - saturated or unsaturated rings, optionally  
 containing at least one hetero atom chosen from  
 O, N and S, these rings containing 4 to 7 atoms

and possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent  $T_3$  chosen from A and R;

- 5     •      $R_4$  is chosen from:
- hydrogen,
  - A,
  - the groups  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $CONR_6R'_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,
  - 10     - saturated or unsaturated hydrocarbon-based rings, of 4 to 7 atoms, 5-atom heterocycles containing from one to four hetero atoms, 6-atom heterocycles containing from one to three non-adjacent hetero atoms, 4- or 7-atom heterocycles
  - 15     containing from one to three hetero atoms, the hetero atoms being chosen from O, N and S, these heterocycles being saturated or unsaturated, the said rings and the said heterocycles possibly being fused, comprising a carbonyl or
  - 20     thiocarbonyl function, and/or possibly being substituted with at least one substituent  $T_4$  chosen from A and R;
- $R_6$ ,  $R'_6$ ,  $R''_6$  and  $R'''_6$  are chosen from:
- hydrogen,
  - 25     - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at least one substituent  $R'$ ,

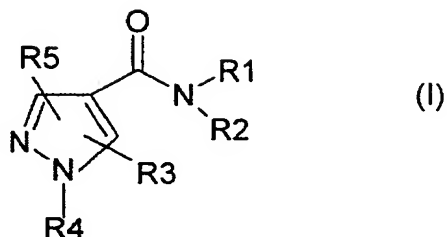
- saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thio-carbonyl function, and/or possibly being substituted with at least one substituent R;
- 5     • R is chosen from:
  - saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radicals,
  - 10    - halogens,
  - the groups OR<sub>7</sub>, SR<sub>7</sub>, NR<sub>7</sub>R'<sub>7</sub>, CN, CF<sub>3</sub>, COR<sub>7</sub>, CSR<sub>7</sub>, COOR<sub>7</sub>, COSR<sub>7</sub>, CSOR<sub>7</sub>, CSSR<sub>7</sub>, NR<sub>7</sub>COR'<sub>7</sub>, NR<sub>7</sub>CSR'<sub>7</sub>, OCOR<sub>7</sub>, SCOR<sub>7</sub>, CSNR<sub>7</sub>R'<sub>7</sub>, SO<sub>2</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>7</sub>R'<sub>7</sub>, NR<sub>7</sub>SO<sub>2</sub>R'<sub>7</sub>, NR<sub>7</sub>C(=NR'<sub>7</sub>)NR''<sub>7</sub>R'''<sub>7</sub> and SiR<sub>7</sub>R'<sub>7</sub>R''<sub>7</sub>,
  - 15    • R' is chosen from:
    - saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radicals,
    - halogens,
    - the groups OR<sub>7</sub>, SR<sub>7</sub>, NR<sub>7</sub>R'<sub>7</sub>, CN, CF<sub>3</sub>, COR<sub>7</sub>, CSR<sub>7</sub>, COOR<sub>7</sub>, COSR<sub>7</sub>, CSOR<sub>7</sub>, CSSR<sub>7</sub>, NR<sub>7</sub>COR'<sub>7</sub>, NR<sub>7</sub>CSR'<sub>7</sub>, OCOR<sub>7</sub>, SCOR<sub>7</sub>, CSNR<sub>7</sub>R'<sub>7</sub>, SO<sub>2</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>7</sub>R'<sub>7</sub>, NR<sub>7</sub>SO<sub>2</sub>R'<sub>7</sub>, NR<sub>7</sub>C(=NR'<sub>7</sub>)NR''<sub>7</sub>R'''<sub>7</sub> and SiR<sub>7</sub>R'<sub>7</sub>R''<sub>7</sub>,
    - 20    - saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused and/or comprising a carbonyl or thiocarbonyl function;
    - 25

- $R_7$ ,  $R'_7$ ,  $R''_7$  and  $R'''_7$  independently represent hydrogen or a saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl;
- A represents a saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radical, optionally substituted with at least one substituent  $T_5$  chosen from:  $R'$  and the saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent R;
- $T_1$  is chosen from  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ , CN,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ , halogens, saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and possibly being substituted with at least one substituent R,

for the preparation of a human hair composition, which is intended to induce and/or stimulate the growth of the hair and/or reduce its loss and/or increase its density and/or treat alopecia of natural origin.

#### 9. Use of at least one pyrazolecarboxamide

compound of formula (I), or a salt thereof:



5 in which:

- R<sub>1</sub> and R<sub>2</sub> are chosen independently from:
  - hydrogen,
  - saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radicals optionally substituted with at least one substituent T<sub>1</sub>,
  - saturated or unsaturated rings containing at least one hetero atom chosen from O, N and S and saturated hydrocarbon-based rings, these rings containing from 4 to 7 atoms and possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent T<sub>2</sub> chosen from A and R,
- R<sub>1</sub> and R<sub>2</sub> also possibly forming a heterocycle of 4 to 7 atoms with the nitrogen to which they are attached;
- R<sub>3</sub> and R<sub>5</sub> are chosen independently from:
  - hydrogen,
  - A,
  - halogens,

- the groups  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  
 $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  
 $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  
 $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ ,
- 5     - saturated or unsaturated rings, optionally  
containing at least one hetero atom chosen from  
O, N and S, these rings containing 4 to 7 atoms  
and possibly being fused, comprising a carbonyl  
or thiocarbonyl function, and/or possibly being  
10     substituted with at least one substituent  $T_3$   
chosen from A and R;
- $R_4$  is chosen from:
  - hydrogen,
  - A,
  - 15     - the groups  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $CONR_6R'_6$ ,  $CSNR_6R'_6$ ,  
 $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,
  - saturated or unsaturated hydrocarbon-based rings,  
of 4 to 7 atoms, 5-atom heterocycles containing  
from one to four hetero atoms, 6-atom  
20     heterocycles containing from one to three non-  
adjacent hetero atoms, 4- or 7-atom heterocycles  
containing from one to three hetero atoms, the  
hetero atoms being chosen from O, N and S, these  
heterocycles being saturated or unsaturated, the  
25     said rings and the said heterocycles possibly  
being fused, comprising a carbonyl or  
thiocarbonyl function, and/or possibly being



substituted with at least one substituent  $T_4$   
 chosen from A and R;

- $R_6$ ,  $R'_6$ ,  $R''_6$  and  $R'''_6$  are chosen from:
  - hydrogen,
  - 5 - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at least one substituent  $R'$ ,
  - saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom
  - 10 - chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thio-carbonyl function, and/or possibly being substituted with at least one substituent R;
- R is chosen from:
  - 15 - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,
  - halogens,
  - the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$ ,  $COR_7$ ,  $CSR_7$ ,  $COOR_7$ ,  $COSR_7$ ,  $CSOR_7$ ,  $CSSR_7$ ,  $NR_7COR'_7$ ,  $NR_7CSR'_7$ ,
  - 20  $OCOR_7$ ,  $SCOR_7$ ,  $CSNR_7R'_7$ ,  $SO_2R_7$ ,  $SO_2NR_7R'_7$ ,  $NR_7SO_2R'_7$ ,  $NR_7C(=NR'_7)NR''_7R'''_7$  and  $SiR_7R'_7R''_7$ ;
- $R'$  is chosen from:
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,
  - 25 - halogens,
  - the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$ ,  $COR_7$ ,  $CSR_7$ ,  $COOR_7$ ,  $COSR_7$ ,  $CSOR_7$ ,  $CSSR_7$ ,  $NR_7COR'_7$ ,  $NR_7CSR'_7$ ,

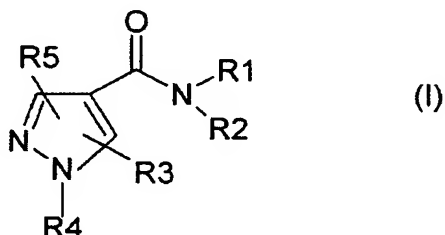
OCOR<sub>7</sub>, SCOR<sub>7</sub>, CSNR<sub>7</sub>R'<sub>7</sub>, SO<sub>2</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>7</sub>R'<sub>7</sub>, NR<sub>7</sub>SO<sub>2</sub>R'<sub>7</sub>,  
 NR<sub>7</sub>C(=NR'<sub>7</sub>)NR''<sub>7</sub>R'''<sub>7</sub> and SiR<sub>7</sub>R'<sub>7</sub>R''<sub>7</sub>,

- saturated or unsaturated rings, of 4 to 7 atoms,  
 optionally containing at least one hetero atom  
 5 chosen from O, N and S, these rings possibly  
 being fused and/or comprising a carbonyl or  
 thiocarbonyl function;

- R<sub>7</sub>, R'<sub>7</sub>, R''<sub>7</sub> and R'''<sub>7</sub> independently represent  
 hydrogen or a saturated or unsaturated, linear or  
 10 branched C<sub>1</sub>-C<sub>20</sub> alkyl;
- A represents a saturated or unsaturated, linear or  
 branched C<sub>1</sub>-C<sub>20</sub> alkyl radical, optionally  
 substituted with at least one substituent T<sub>5</sub> chosen  
 from: R' and the saturated or unsaturated rings of  
 15 4 to 7 atoms optionally containing at least one  
 hetero atom chosen from O, N and S, these rings  
 possibly being fused, comprising a carbonyl or  
 thiocarbonyl function, and/or possibly being  
 substituted with at least one substituent R;
- 20 • T<sub>1</sub> is chosen from OR<sub>6</sub>, SR<sub>6</sub>, NR<sub>6</sub>R'<sub>6</sub>, CN, CF<sub>3</sub>, COR<sub>6</sub>,  
 CSR<sub>6</sub>, COOR<sub>6</sub>, COSR<sub>6</sub>, CSOR<sub>6</sub>, CSSR<sub>6</sub>, NR<sub>6</sub>COR'<sub>6</sub>, NR<sub>6</sub>CSR'<sub>6</sub>,  
 OCOR<sub>6</sub>, SCOR<sub>6</sub>, CSNR<sub>6</sub>R'<sub>6</sub>, SO<sub>2</sub>R<sub>6</sub>, SO<sub>2</sub>NR<sub>6</sub>R'<sub>6</sub>, NR<sub>6</sub>SO<sub>2</sub>R'<sub>6</sub>,  
 NR<sub>6</sub>C(=NR'<sub>6</sub>)NR''<sub>6</sub>R'''<sub>6</sub>, SiR<sub>6</sub>R'<sub>6</sub>R''<sub>6</sub>, halogens, saturated  
 or unsaturated rings of 4 to 7 atoms optionally  
 25 containing at least one hetero atom chosen from O,  
 N and S, these rings possibly being fused,  
 comprising a carbonyl or thiocarbonyl function, and

possibly being substituted with at least one  
 substituent R,  
 as a cosmetic composition for caring for and/or making  
 up human eyelashes, to reduce their loss and/or to  
 5 increase their density.

10. Use of at least one pyrazolecarboxamide  
 compound of formula (I), or a salt thereof:



10

in which:

- $R_1$  and  $R_2$  are chosen independently from:
  - hydrogen,
  - saturated or unsaturated, linear or branched  $C_1$ -  
 15  $C_{20}$  alkyl radicals optionally substituted with at  
 least one substituent  $T_1$ ,
  - saturated or unsaturated rings containing at  
 least one hetero atom chosen from O, N and S and  
 saturated hydrocarbon-based rings, these rings  
 20 containing from 4 to 7 atoms and possibly being  
 fused, comprising a carbonyl or thiocarbonyl  
 function, and/or possibly being substituted with  
 at least one substituent  $T_2$  chosen from A and R,  
 $R_1$  and  $R_2$  also possibly forming a heterocycle of 4

to 7 atoms with the nitrogen to which they are attached;

- $R_3$  and  $R_5$  are chosen independently from:
  - hydrogen,
  - 5    - A,
  - halogens,
  - the groups  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COR_6$ ,  $CSR_6$ ,  
 $COOR_6$ ,  $COSR_6$ ,  $CSOR_6$ ,  $CSSR_6$ ,  $NR_6COR'_6$ ,  $NR_6CSR'_6$ ,  
 $OCOR_6$ ,  $SCOR_6$ ,  $CSNR_6R'_6$ ,  $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,  $NR_6SO_2R'_6$ ,  
 10     $NR_6C(=NR'_6)NR''_6R'''_6$ ,  $SiR_6R'_6R''_6$ ,
  - saturated or unsaturated rings of 4 to 7 atoms,  
 optionally containing at least one hetero atom  
 chosen from O, N and S, these rings possibly  
 being fused, comprising a carbonyl or  
 15    thiocarbonyl function, and/or possibly being  
 substituted with at least one substituent  $T_3$   
 chosen from A and R;
- $R_4$  is chosen from:
  - hydrogen,
  - 20    - A,
  - the groups  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $CONR_6R'_6$ ,  $CSNR_6R'_6$ ,  
 $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,
  - saturated or unsaturated hydrocarbon-based rings,  
 of 4 to 7 atoms, 5-atom heterocycles containing  
 25    from one to four hetero atoms, 6-atom  
 heterocycles containing from one to three non-  
 adjacent hetero atoms, 4- or 7-atom heterocycles

- containing from one to three hetero atoms, the hetero atoms being chosen from O, N and S, these heterocycles being saturated or unsaturated, the said rings and the said heterocycles possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent  $T_4$  chosen from A and R;
- $R_6$ ,  $R'_6$ ,  $R''_6$  and  $R'''_6$  are chosen from:
    - hydrogen,
    - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at least one substituent  $R'$ ,
    - saturated or unsaturated rings, of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thio-carbonyl function, and/or possibly being substituted with at least one substituent R;
  - R is chosen from:
    - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,
    - halogens,
    - the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ , CN,  $CF_3$ ,  $COR_7$ ,  $CSR_7$ ,  $COOR_7$ ,  $COSR_7$ ,  $CSOR_7$ ,  $CSSR_7$ ,  $NR_7COR'_7$ ,  $NR_7CSR'_7$ ,  $OCOR_7$ ,  $SCOR_7$ ,  $CSNR_7R'_7$ ,  $SO_2R_7$ ,  $SO_2NR_7R'_7$ ,  $NR_7SO_2R'_7$ ,  $NR_7C(=NR'_7)NR''_7R_2''_7$  and  $SiR_7R'_7R''_7$ ;

- R' is chosen from:
  - saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radicals,
  - halogens,
  - 5 - the groups OR<sub>7</sub>, SR<sub>7</sub>, NR<sub>7</sub>R'<sub>7</sub>, CN, CF<sub>3</sub>, COR<sub>7</sub>, CSR<sub>7</sub>, COOR<sub>7</sub>, COSR<sub>7</sub>, CSOR<sub>7</sub>, CSSR<sub>7</sub>, NR<sub>7</sub>COR'<sub>7</sub>, NR<sub>7</sub>CSR'<sub>7</sub>, OCOR<sub>7</sub>, SCOR<sub>7</sub>, CSNR<sub>7</sub>R'<sub>7</sub>, SO<sub>2</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>7</sub>R'<sub>7</sub>, NR<sub>7</sub>SO<sub>2</sub>R'<sub>7</sub>, NR<sub>7</sub>C(=NR'<sub>7</sub>)NR''<sub>7</sub>R''<sub>7</sub> and SiR<sub>7</sub>R'<sub>7</sub>R''<sub>7</sub>,
  - saturated or unsaturated rings, of 4 to 7 atoms,
  - 10 optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused and/or comprising a carbonyl or thiocarbonyl function;
- R<sub>7</sub>, R'<sub>7</sub>, R''<sub>7</sub> and R'''<sub>7</sub> independently represent
  - 15 hydrogen or a saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl;
- A represents a saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radical, optionally substituted with at least one substituent T<sub>5</sub> chosen
  - 20 from: R' and the saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being
  - 25 substituted with at least one substituent R;
- T<sub>1</sub> is chosen from OR<sub>6</sub>, SR<sub>6</sub>, NR<sub>6</sub>R'<sub>6</sub>, CN, CF<sub>3</sub>, COR<sub>6</sub>, CSR<sub>6</sub>, COOR<sub>6</sub>, COSR<sub>6</sub>, CSOR<sub>6</sub>, CSSR<sub>6</sub>, NR<sub>6</sub>COR'<sub>6</sub>, NR<sub>6</sub>CSR'<sub>6</sub>,

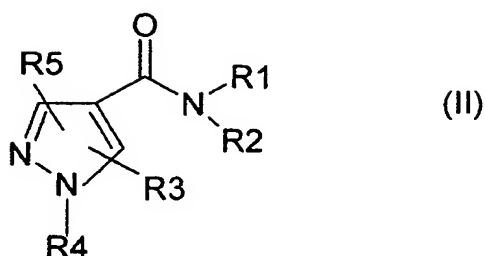
OCOR<sub>6</sub>, SCOR<sub>6</sub>, CSNR<sub>6</sub>R'<sub>6</sub>, SO<sub>2</sub>R<sub>6</sub>, SO<sub>2</sub>NR<sub>6</sub>R'<sub>6</sub>, NR<sub>6</sub>SO<sub>2</sub>R'<sub>6</sub>,  
 NR<sub>6</sub>C(=NR'<sub>6</sub>)NR''<sub>6</sub>R'''<sub>6</sub>, SiR<sub>6</sub>R'<sub>6</sub>R''<sub>6</sub>, halogens, saturated  
 or unsaturated rings of 4 to 7 atoms optionally  
 containing at least one hetero atom chosen from O,  
 5 N and S, these rings possibly being fused,  
 comprising a carbonyl or thiocarbonyl function, and  
 possibly being substituted with at least one  
 substituent R,

for the preparation of a composition for caring for  
 10 and/or treating human eyelashes, which is intended to  
 induce and/or stimulate their growth and/or increase  
 their density.

11. Use of at least one pyrazolecarboxamide  
 compound of formula (I), or a salt thereof, for the  
 15 manufacture of a composition for preserving the amount  
 and/or activity of the prostaglandins in the hair  
 follicles.

12. Cosmetic use of at least one pyrazole-  
 carboxamide compound of formula (I), or a salt thereof,  
 20 as an agent for preserving the amount and/or activity  
 of prostaglandins in the hair follicles.

13. Use according to one of the preceding  
 claims, characterized in that the pyrazolecarboxamide  
 compound has the formula (II) below, or a salt thereof:



in which:

- $R_1$  and  $R_2$  are chosen independently from:
  - 5        - hydrogen,
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at least one substituent  $T_1$ ,  $R_1$  and  $R_2$  also possibly forming a heterocycle of 4 to 7 atoms with the
  - 10        nitrogen to which they are attached;
- $R_3$  and  $R_5$  are chosen independently from:
  - hydrogen,
  - A,
  - halogens,
  - 15        - the groups  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COOR_6$ ,
  - saturated or unsaturated rings of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused and/or possibly being substituted
  - 20        with at least one substituent  $T_3$  chosen from A and R;
- $R_4$  is chosen from:
  - hydrogen,



- A,
- the groups  $\text{COR}_6$  and  $\text{COOR}_6$ ,
- saturated or unsaturated hydrocarbon-based rings of 4 to 7 atoms, these rings possibly being substituted with at least one substituent  $\text{T}_4$  chosen from A and R;
- 5
- $\text{R}_6$  and  $\text{R}'_6$  are chosen from:
  - hydrogen,
  - saturated or unsaturated, linear or branched  $\text{C}_1$ - $\text{C}_{20}$  alkyl radicals optionally substituted with at least one substituent  $\text{R}'$ ,
  - 10
  - saturated or unsaturated rings of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused and/or possibly being substituted with at least one substituent R;
  - 15
- R is chosen from:
  - saturated or unsaturated, linear or branched  $\text{C}_1$ - $\text{C}_{20}$  alkyl radicals,
  - 20
  - halogens,
  - the groups  $\text{OR}_7$ ,  $\text{SR}_7$ ,  $\text{NR}_7\text{R}'_7$ ,  $\text{CN}$ ,  $\text{CF}_3$  and  $\text{COOR}_7$ ;
  - $\text{R}'$  is chosen from:
    - saturated or unsaturated, linear or branched  $\text{C}_1$ - $\text{C}_{20}$  alkyl radicals,
    - 25
    - halogens,
    - the groups  $\text{OR}_7$ ,  $\text{SR}_7$ ,  $\text{NR}_7\text{R}'_7$ ,  $\text{CN}$ ,  $\text{CF}_3$  and  $\text{COOR}_7$ ,
    - saturated or unsaturated rings of 4 to 7 atoms,

optionally containing at least one hetero atom  
chosen from O, N and S, these rings possibly  
being fused;

- $R_7$  and  $R'_7$  independently represent hydrogen or a  
5 saturated or unsaturated, linear or branched  $C_1-C_{20}$   
alkyl radical;
- A represents a saturated or unsaturated, linear or  
branched  $C_1-C_{20}$  alkyl radical optionally substituted  
with at least one substituent  $T_5$  chosen from  
10 halogens, the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$  and  
 $COOR_7$  and saturated or unsaturated rings of 4 to 7  
atoms optionally containing at least one hetero  
atom chosen from O, N and S, these rings possibly  
being fused and/or possibly being substituted with  
15 at least one substituent R;
- $T_1$  is chosen from  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$  and  $COOR_6$ ,  
halogens, saturated or unsaturated rings of 4 to 7  
atoms optionally containing at least one hetero  
atom chosen from O, N and S, these rings possibly  
20 being fused and possibly being substituted with at  
least one substituent R.

14. Use according to one of the preceding  
claims, characterized in that at least one from among  $R_1$   
and  $R_2$  represents a group  $(CH_2)_nR_8$  with  $R_8$  representing  
25 OH or  $-S-(CH_2)_mR_9$ , with  $R_9$  representing H or Hy, in which  
Hy represents a heterocycle of 4 to 7 atoms.

15. Use according to one of the preceding

claims, characterized in that  $R_1$  represents hydrogen and  $R_2$  represents a group  $(CH_2)_nR_8$  with  $n$  being equal to 2 and  $m$  being equal to 1.

16. Use according to the preceding claim,  
5 characterized in that  $H_y$  represents a 5-atom hetero-cycle.

17. Use according to one of Claims 14 to 16, characterized in that  $H_y$  comprises oxygen as hetero atom.

10 18. Use according to one of the preceding claims, characterized in that  $R_4$  represents a hydrocarbon-based ring containing 5 or 6 atoms and especially an optionally substituted phenyl radical.

19. Use according to one of the preceding  
15 claims, characterized in that at least one from among  $R_3$  and  $R_5$  represents  $CF_3$ .

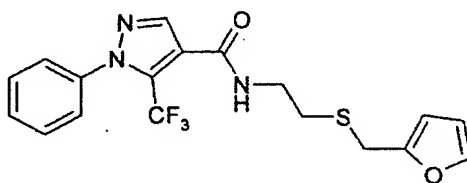
20. Use according to one of the preceding claims, characterized in that  $R_3$  represents  $CF_3$  and  $R_5$  represents H.

20 21. Use according to one of the preceding claims, characterized in that the salt of the compound of formula (I) is a salt chosen from the sodium or potassium salts, the zinc ( $Zn^{2+}$ ), calcium ( $Ca^{2+}$ ), copper ( $Cu^{2+}$ ), iron ( $Fe^{2+}$ ), strontium ( $Sr^{2+}$ ), magnesium ( $Mg^{2+}$ ),  
25 manganese ( $Mn^{2+}$ ) and ammonium salts, the triethanol-amine, monoethanolamine, diethanolamine, hexadecyl-amine, N,N,N',N'-tetrakis(2-hydroxypropyl)ethylene-

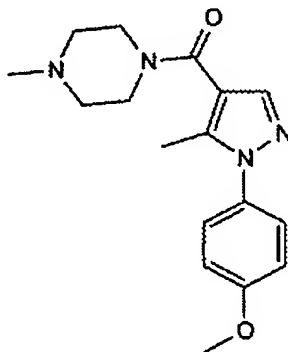
diamine and tris(hydroxymethylamino)methane salts, hydroxides, carbonates, halides, sulphates, phosphates and nitrates.

22. Use according to one of the preceding 5 claims, characterized in that the compound satisfies one of the following formulae:

Compound 1

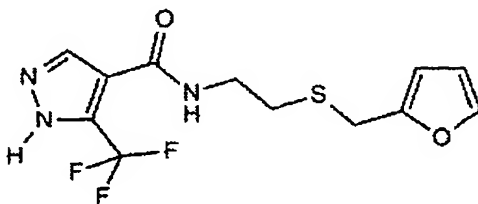


Compound 2

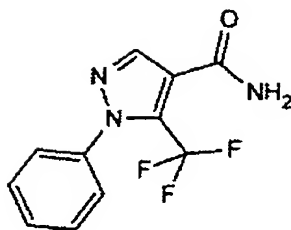


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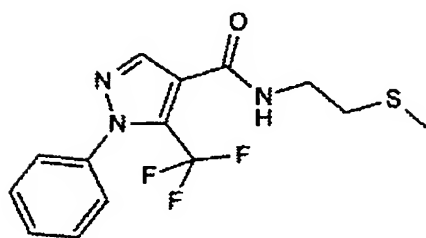
Compound 3



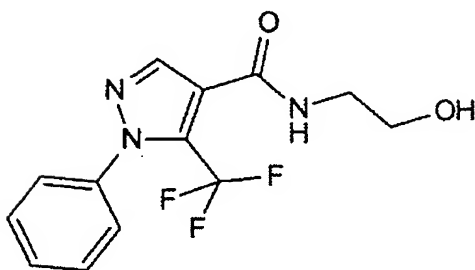
Compound 4



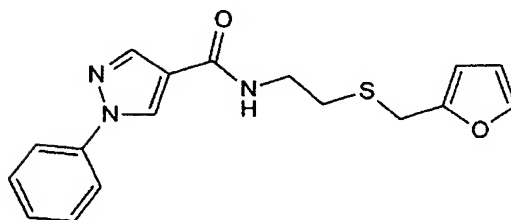
Compound 5



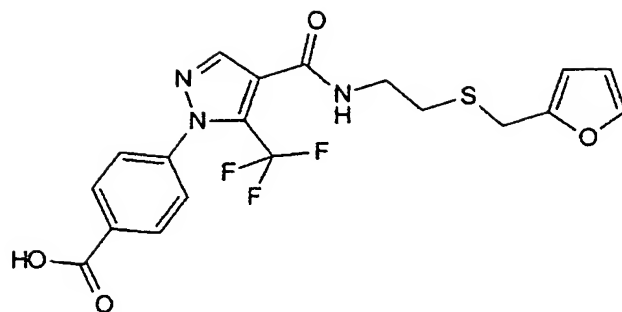
5 Compound 6



Compound 7



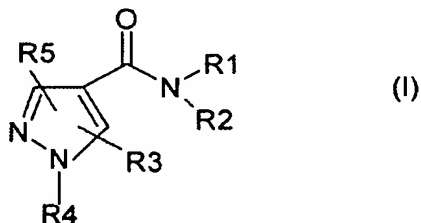
Compound 8



23. Use according to one of the preceding claims, characterized in that the compound of formula  
 5 (I) or a mixture of compounds of formula (I) is used at a concentration ranging from  $10^{-3}$  to 10%, and preferably from  $10^{-2}$  to 2%, relative to the total weight of the composition.

24. Use according to one of the preceding  
 10 claims, characterized in that the composition is a composition for topical application.

25. Composition for caring for or making up keratin fibres, containing a physiologically acceptable medium and an effective amount of at least one  
 15 pyrazolecarboxamide compound of formula (I), or a salt thereof:



in which:

- $R_1$  and  $R_2$  are chosen independently from:

- hydrogen,
- saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radicals optionally substituted with at least one substituent T<sub>1</sub>,
- 5 - saturated or unsaturated rings containing at least one hetero atom chosen from O, N and S and saturated hydrocarbon-based rings, these rings containing from 4 to 7 atoms and possibly being fused, comprising a carbonyl or thiocarbonyl
- 10 function, and/or possibly being substituted with at least one substituent T<sub>2</sub> chosen from A and R, R<sub>1</sub> and R<sub>2</sub> also possibly forming a heterocycle of 4 to 7 atoms with the nitrogen to which they are attached;
- 15 • R<sub>3</sub> and R<sub>5</sub> are chosen independently from:
  - hydrogen,
  - A,
  - halogens,
  - the groups OR<sub>6</sub>, SR<sub>6</sub>, NR<sub>6</sub>R'<sub>6</sub>, CN, CF<sub>3</sub>, COR<sub>6</sub>, CSR<sub>6</sub>,
  - 20 COOR<sub>6</sub>, COSR<sub>6</sub>, CSOR<sub>6</sub>, CSSR<sub>6</sub>, NR<sub>6</sub>COR'<sub>6</sub>, NR<sub>6</sub>CSR'<sub>6</sub>, OCOR<sub>6</sub>, SCOR<sub>6</sub>, CSNR<sub>6</sub>R'<sub>6</sub>, SO<sub>2</sub>R<sub>6</sub>, SO<sub>2</sub>NR<sub>6</sub>R'<sub>6</sub>, NR<sub>6</sub>SO<sub>2</sub>R'<sub>6</sub>, NR<sub>6</sub>C(=NR'<sub>6</sub>)NR''<sub>6</sub>R'''<sub>6</sub>, SiR<sub>6</sub>R'<sub>6</sub>R''<sub>6</sub>,
  - saturated or unsaturated rings of 4 to 7 atoms, optionally containing at least one hetero atom
  - 25 chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being

substituted with at least one substituent  $T_3$   
 chosen from A and R;

- $R_4$  is chosen from:

- hydrogen,
- 5    - A,
- the groups  $COR_6$ ,  $CSR_6$ ,  $COOR_6$ ,  $CONR_6R'_6$ ,  $CSNR_6R'_6$ ,  
 $SO_2R_6$ ,  $SO_2NR_6R'_6$ ,
- saturated or unsaturated hydrocarbon-based rings,  
 of 4 to 7 atoms, 5-atom heterocycles containing  
 10    from one to four hetero atoms, 6-atom  
 heterocycles containing from one to three non-  
 adjacent hetero atoms, 4- or 7-atom heterocycles  
 containing from one to three hetero atoms, the  
 hetero atoms being chosen from O, N and S, these  
 15    heterocycles being saturated or unsaturated, the  
 said rings and the said heterocycles possibly  
 being fused, comprising a carbonyl or  
 thiocarbonyl function, and/or possibly being  
 substituted with at least one substituent  $T_4$   
 20    chosen from A and R;

- $R_6$ ,  $R'_6$ ,  $R''_6$  and  $R'''_6$  are chosen from:

- hydrogen,
- saturated or unsaturated, linear or branched  $C_1$ -  
 $C_{20}$  alkyl radicals optionally substituted with at  
 25    least one substituent  $R'$ ,
- saturated or unsaturated rings, of 4 to 7 atoms,  
 optionally containing at least one hetero atom



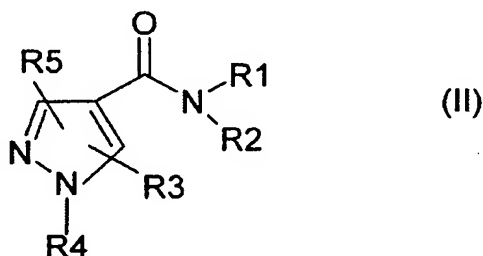
chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thio-carbonyl function, and/or possibly being substituted with at least one substituent R;

- 5    ●    R is chosen from:
  - saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radicals,
  - halogens,
  - the groups OR<sub>7</sub>, SR<sub>7</sub>, NR<sub>7</sub>R'<sub>7</sub>, CN, CF<sub>3</sub>, COR<sub>7</sub>, CSR<sub>7</sub>,  
 10    COOR<sub>7</sub>, COSR<sub>7</sub>, CSOR<sub>7</sub>, CSSR<sub>7</sub>, NR<sub>7</sub>COR'<sub>7</sub>, NR<sub>7</sub>CSR'<sub>7</sub>,  
 OCOR<sub>7</sub>, SCOR<sub>7</sub>, CSNR<sub>7</sub>R'<sub>7</sub>, SO<sub>2</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>7</sub>R'<sub>7</sub>, NR<sub>7</sub>SO<sub>2</sub>R'<sub>7</sub>,  
 NR<sub>7</sub>C(=NR'<sub>7</sub>)NR''<sub>7</sub>R'''<sub>7</sub> and SiR<sub>7</sub>R'<sub>7</sub>R''<sub>7</sub>;
- R' is chosen from:
  - saturated or unsaturated, linear or branched C<sub>1</sub>-  
 15    C<sub>20</sub> alkyl radicals,
  - halogens,
  - the groups OR<sub>7</sub>, SR<sub>7</sub>, NR<sub>7</sub>R'<sub>7</sub>, CN, CF<sub>3</sub>, COR<sub>7</sub>, CSR<sub>7</sub>,  
 COOR<sub>7</sub>, COSR<sub>7</sub>, CSOR<sub>7</sub>, CSSR<sub>7</sub>, NR<sub>7</sub>COR'<sub>7</sub>, NR<sub>7</sub>CSR<sub>7</sub>,  
 OCOR<sub>7</sub>, SCOR<sub>7</sub>, CSNR<sub>7</sub>R'<sub>7</sub>, SO<sub>2</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>7</sub>R'<sub>7</sub>, NR<sub>7</sub>SO<sub>2</sub>R'<sub>7</sub>,  
 20    NR<sub>7</sub>C(=NR'<sub>7</sub>)NR''<sub>7</sub>R'''<sub>7</sub> and SiR<sub>7</sub>R'<sub>7</sub>R''<sub>7</sub>,
  - saturated or unsaturated rings, of 4 to 7 atoms,  
 optionally containing at least one hetero atom  
 chosen from O, N and S, these rings possibly  
 being fused and/or comprising a carbonyl or  
 25    thiocarbonyl function;
- R<sub>7</sub>, R'<sub>7</sub>, R''<sub>7</sub> and R'''<sub>7</sub> independently represent  
 hydrogen or a saturated or unsaturated, linear or

branched C<sub>1</sub>-C<sub>20</sub> alkyl;

- A represents a saturated or unsaturated, linear or branched C<sub>1</sub>-C<sub>20</sub> alkyl radical, optionally substituted with at least one substituent T<sub>5</sub> chosen from: R' and the saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and/or possibly being substituted with at least one substituent R;
- T<sub>1</sub> is chosen from OR<sub>6</sub>, SR<sub>6</sub>, NR<sub>6</sub>R'<sub>6</sub>, CN, CF<sub>3</sub>, COR<sub>6</sub>, CSR<sub>6</sub>, COOR<sub>6</sub>, COSR<sub>6</sub>, CSOR<sub>6</sub>, CSSR<sub>6</sub>, NR<sub>6</sub>COR'<sub>6</sub>, NR<sub>6</sub>CSR'<sub>6</sub>, OCOR<sub>6</sub>, SCOR<sub>6</sub>, CSNR<sub>6</sub>R'<sub>6</sub>, SO<sub>2</sub>R<sub>6</sub>, SO<sub>2</sub>NR<sub>6</sub>R'<sub>6</sub>, NR<sub>6</sub>SO<sub>2</sub>R'<sub>6</sub>, NR<sub>6</sub>C(=NR'<sub>6</sub>)NR''<sub>6</sub>R'''<sub>6</sub>, SiR<sub>6</sub>R'<sub>6</sub>R''<sub>6</sub>, halogens, saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused, comprising a carbonyl or thiocarbonyl function, and possibly being substituted with at least one substituent R.

26. Composition according to Claim 25, characterized in that the pyrazolecarboxamide compound has the formula (II) below, or a salt thereof:



in which:

- $R_1$  and  $R_2$  are chosen independently from:
  - hydrogen,
  - saturated or unsaturated, linear or branched  $C_1$ -  
 5  $C_{20}$  alkyl radicals optionally substituted with at  
 least one substituent  $T_1$ ,  $R_1$  and  $R_2$  also possibly  
 forming a heterocycle of 4 to 7 atoms with the  
 nitrogen to which they are attached;
- $R_3$  and  $R_5$  are chosen independently from:
  - 10 - hydrogen,
  - A,
  - halogens,
  - the groups  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$ ,  $COOR_6$ ,
  - saturated or unsaturated rings of 4 to 7 atoms,  
 15 optionally containing at least one hetero atom  
 chosen from O, N and S, these rings possibly  
 being fused and/or possibly being substituted  
 with at least one substituent  $T_3$  chosen from A and  
 R;
- 20 •  $R_4$  is chosen from:
  - hydrogen,
  - A,
  - the groups  $COR_6$  and  $COOR_6$ ,
  - saturated or unsaturated hydrocarbon-based rings  
 25 of 4 to 7 atoms, these rings possibly being  
 substituted with at least one substituent  $T_4$   
 chosen from A and R;

- $R_6$  and  $R'_6$  are chosen from:
  - hydrogen,
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals optionally substituted with at least one substituent  $R'$ ,
  - saturated or unsaturated rings of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused and/or possibly being substituted with at least one substituent R;
- R is chosen from:
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,
  - halogens,
  - the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ , CN,  $CF_3$  and  $COOR_7$ ;
- $R'$  is chosen from:
  - saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radicals,
  - halogens,
  - the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ , CN,  $CF_3$  and  $COOR_7$ ,
  - saturated or unsaturated rings of 4 to 7 atoms, optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused;
- $R_7$  and  $R'_7$  independently represent hydrogen or a saturated or unsaturated, linear or branched  $C_1$ - $C_{20}$  alkyl radical;

- A represents a saturated or unsaturated, linear or branched  $C_1-C_{20}$  alkyl radical optionally substituted with at least one substituent  $T_5$  chosen from halogens, the groups  $OR_7$ ,  $SR_7$ ,  $NR_7R'_7$ ,  $CN$ ,  $CF_3$  and  $COOR_7$  and saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused and/or possibly being substituted with at least one substituent R;
- $T_1$  is chosen from  $OR_6$ ,  $SR_6$ ,  $NR_6R'_6$ ,  $CN$ ,  $CF_3$  and  $COOR_6$ , halogens, saturated or unsaturated rings of 4 to 7 atoms optionally containing at least one hetero atom chosen from O, N and S, these rings possibly being fused and possibly being substituted with at least one substituent R.

27. Composition according to Claim 25 or 26, characterized in that at least one from among  $R_1$  and  $R_2$  represents a group  $(CH_2)_nS(CH_2)_mHy$ , in which Hy represents a heterocycle.

28. Composition according to one of Claims 25 to 27, characterized in that  $R_1$  represents hydrogen and  $R_2$  represents a group  $(CH_2)_nS(CH_2)_mHy$  in which Hy represents a heterocycle with n being equal to 2 and m being equal to 1.

29. Composition according to one of Claims 25 to 28, characterized in that Hy represents a 5-atom heterocycle.

30. Composition according to one of Claims 25 to 29, characterized in that Hy comprises oxygen as hetero atom.

31. Composition according to one of Claims 25 to 30, characterized in that one from among  $R_3$  and  $R_5$  represents  $CF_3$ .

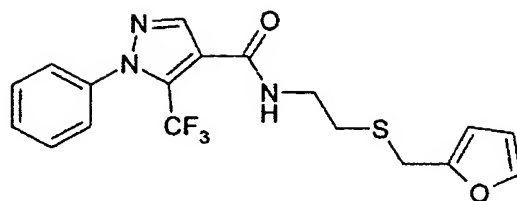
32. Composition according to one of Claims 25 to 31, characterized in that  $R_3$  represents  $CF_3$  and  $R_5$  represents H.

33. Composition according to one of Claims 25 to 32, characterized in that  $R_4$  represents a hydrocarbon-based ring containing 5 or 6 atoms.

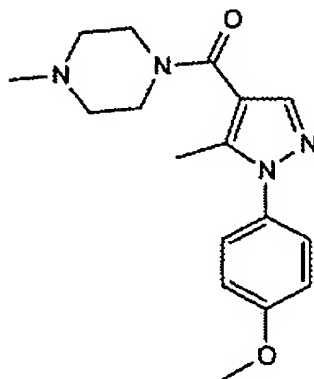
34. Composition according to one of Claims 25 to 33, characterized in that the salt of the compound of formula (I) is a salt chosen from the sodium or potassium salts, the zinc ( $Zn^{2+}$ ), calcium ( $Ca^{2+}$ ), copper ( $Cu^{2+}$ ), iron ( $Fe^{2+}$ ), strontium ( $Sr^{2+}$ ), magnesium ( $Mg^{2+}$ ), manganese ( $Mn^{2+}$ ) and ammonium salts, the triethanolamine, monoethanolamine, diethanolamine, hexadecylamine, N,N,N',N'-tetrakis(2-hydroxypropyl)-ethylenediamine and tris(hydroxymethylamino)methane salts, hydroxides, carbonates, halides, sulphates, phosphates and nitrates.

35. Composition according to one of Claims 25 to 36, characterized in that the compound of formula (I) satisfies one of the following formulae:

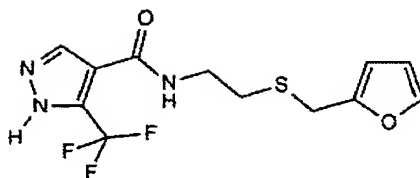
Compound 1



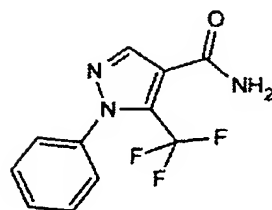
Compound 2



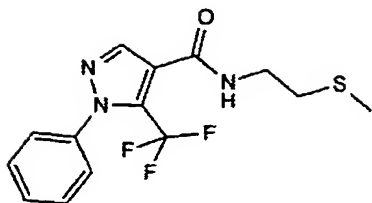
5 Compound 3



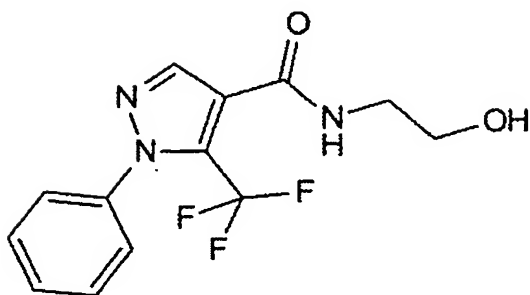
Compound 4



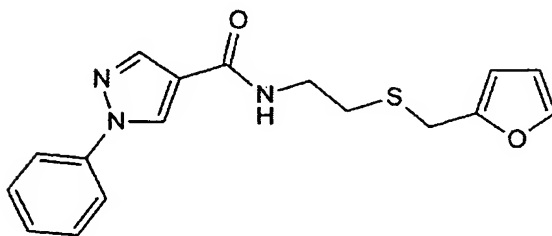
Compound 5



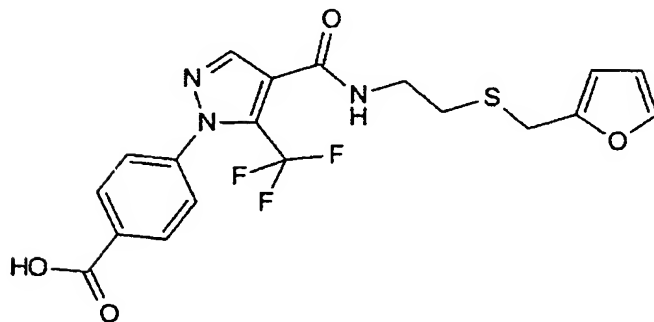
Compound 6



5 Compound 7



Compound 8



36. Composition according to one of Claims  
 10 25 to 35, characterized in that the compound of formula  
 (I) is used at a concentration ranging from  $10^{-3}$  to 10%,



and preferably from  $10^{-2}$  to 2%, relative to the total weight of the composition.

37. Composition according to one of Claims 25 to 36, characterized in that the composition is for  
5 topical application.

38. Composition according to one of Claims 25 to 37, characterized in that it is in the form of a hair cream, a hair lotion, a shampoo, a conditioner or a mascara for the hair or the eyelashes.

10 39. Composition according to one of Claims 25 to 38, characterized in that it is in the form of an aqueous, alcoholic or aqueous-alcoholic solution or suspension.

40. Composition according to one of  
15 Claims 25 to 39, characterized in that it contains other ingredients chosen from solvents, aqueous-phase or oily-phase thickeners or gelling agents, dyestuffs that are soluble in the medium of the composition, fillers, pigments, antioxidants, preserving agents,  
20 fragrances, electrolytes, neutralizers, film-forming polymers, UV-blockers and cosmetic and pharmaceutical active agents other than the compounds of formula (I), and mixtures thereof.

41. Composition according to one of  
25 Claims 25 to 40, characterized in that it also contains another active agent chosen from proteins, protein hydrolysates, amino acids, polyols, urea, allantoin,

sugars and sugar derivatives, plant extracts, hydroxy acids; retinol derivatives, tocopherol derivatives, essential fatty acids, ceramides, essential oils, salicylic acid derivatives, for instance 5-n-octanoyl  
5 salicylic acid, hydroxy acid esters, phospholipids and vitamins, and mixtures thereof.

42. Composition according to one of Claims 25 to 41, characterized in that it also contains at least one additional active compound that promotes  
10 the regrowth and/or limits the loss of keratin fibres.

43. Composition according to one of Claims 25 to 42, characterized in that it also contains at least one additional active compound that promotes the regrowth and/or limits the loss of keratin fibres,  
15 chosen from aminexil, 6-O-[(9Z,12Z)octadeca-9,12-dienoyl]hexapyranose, lipoxygenase inhibitors, bradykinin inhibitors, prostaglandins and derivatives thereof, prostaglandin receptor agonists or antagonists, non-prostanoic prostaglandin analogues,  
20 vasodilators, antiandrogens, cyclosporins and analogues thereof, antimicrobial agents, anti-inflammatory agents, retinoids, benzalkonium chloride, benzethonium chloride, phenol, oestradiol, chlorpheniramine maleate, chlorophylline derivatives, cholesterol, cysteine,  
25 methionine, menthol, peppermint oil, calcium pantothenate, panthenol, resorcinol, protein kinase C activators, glycosidase inhibitors,

glycosaminoglycanase inhibitors, pyroglutamic acid esters, hexosaccharidic or acylhexosaccharidic acids, aryl-substituted ethylenes, N-acyl amino acids, flavonoids, ascomycin derivatives and analogues,  
 5 histamine antagonists, saponins, proteoglycanase inhibitors, oestrogen agonists and antagonists, pseudoterines, cytokines and growth factor promoters, IL-1 or IL-6 inhibitors, IL-10 promoters, TNF inhibitors, benzophenones, hydantoin, octopirox,  
 10 retinoic acid, antipruriginous agents, antiparasitic agents, antifungal agents, nicotinic acid esters, calcium antagonists, hormones, triterpenes, antiandrogens, steroidal or non-steroidal 5- $\alpha$ -reductase inhibitors, potassium-channel agonists and FP receptor  
 15 agonists, and mixtures thereof.

44. Composition according to one of Claims 41 to 43, characterized in that the additional active compound is chosen from aminexil, FP receptor agonists and vasodilators.

20 45. Care or makeup composition for keratin fibres, comprising, in a physiologically acceptable medium, in particular a cosmetic medium, at least one compound of formula (I), or a salt thereof, and at least one additional active compound for promoting the  
 25 regrowth of human keratin fibres and/or for limiting their loss, chosen from aminexil, FP receptor agonists and vasodilators.

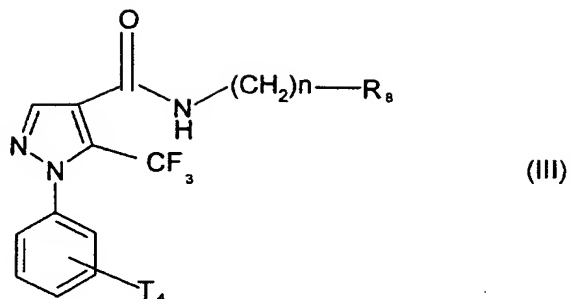
46. Composition according to one of Claims 42 to 45, characterized in that the additional active compound is chosen from aminexil, minoxidil, latanoprost, butaprost and travoprost.

5           47. Cosmetic process for treating keratin fibres and/or the skin from which the said fibres emerge, characterized in that it consists in applying to the fibres and/or the skin a cosmetic composition as defined in any of Claims 25 to 46, leaving this  
10 composition in contact with the fibres and/or the skin, and optionally rinsing it off.

          48. Cosmetic care and/or makeup process for human eyelashes, to improve their condition and/or appearance, characterized in that it consists in  
15 applying to the eyelashes and/or the eyelids a mascara composition comprising at least one compound of formula (I) or a salt thereof, and leaving this composition in contact with the eyelashes and/or the eyelids.

          49. Cosmetic care process for human hair  
20 and/or the scalp characterized in that it consists in applying to the hair and/or the scalp a cosmetic composition as defined in any one of Claims 25 to 46, leaving the composition in contact with the hair and/or the scalp, and optionally rinsing it off.

25           50. Pyrazolecarboxamide compound of formula (III), or a salt thereof:



in which  $R_8$  represents OH or  $-S-(CH_2)_m-R_9$ , with  $R_9$  representing H or Hy;  $T_4$  represents H or 4-COOH; n represents an integer ranging from 1 to 10 and m represents an integer ranging from 1 to 10; Hy represents a heterocycle of 4 to 7 atoms.

51. Compound according to Claim 50, characterized in that Hy represents furan.

10            52. Compound according to Claim 50 or 51, characterized in that  $n = 2$  and/or  $m = 1$ .